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SHARP 14LM-40C SERVICE MANUAL

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SHARP®

SERVICE MANUAL

SE0014LM40C00
Issued :10 June 2004

AK-36 CHASSIS

PAL SECAM B/G, L, L', D/K SYSTEM COLOUR TELEVISION

MODEL
14LM-40C

In the interests of user safety (required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

In order to service the model 14LM-40C, refer to the AK-36 Chassis Service Manual (SE00AK36CHA00).

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SHARP CORPORATION

This document has been published to be used for after sales service only.

SERVICE MANUAL UPDATE LOG SHEET

Technical Report No. Technical Bulletin No.	Cause / Solution	Part No.	Page No.	Application Data /Serial No.

Use this page to keep any special servicing information as Technical Report (Bulletin), Technical Information, etc.
If only part number changes are required, just change part number directly the part number in the Parts Listing Section.
If you need more information, please refer to the Technical Report (Bulletin).

ELECTRICAL SPECIFICATIONS

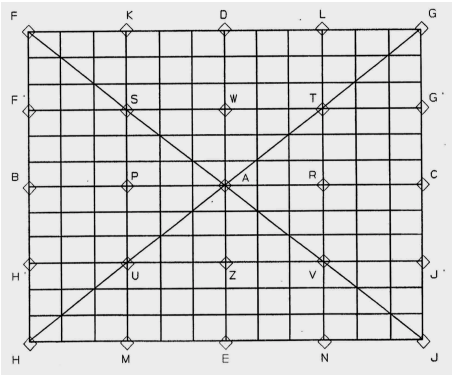
•Power Input ..... 220V-240 Volts AC 50 Hz

•Power Consumption
Normal Operation (Method IEC60107) ..... 40 W
Stand-by Operation ..... < 10 W

•Audio Power Output Rating (MPO) / Impedance
Internal Speaker ..... 2.5 W, 16 Ω

•Speakers
Speaker ..... 7.2 mm Round

•Convergence (Maximum Misconvergence)



AREA	14" - 17"
A	0.3
BC	0.8
DE	0.8
FGHJ	1.3
KLMN	1.0
F'G'H'J'	1.0
STUV	0.9

•Picture Intermediate frequency
L' 33.9MHz
L, B/G, D/K 38.9MHz

•Sound Carrier Trap
L' 40.4MHz
L, D/K 32.4MHz
B/G 33.4MHz

•Adjacent Sound Carrier Trap
L' 32.4MHz
L, D/K, B/G 40.4MHz

•Adjacent Picture Carrier Trap
L' 41.9MHz
L, D/K 30.9MHz
B/G 31.9MHz

•Aerial Input Impedance
VHF/UHF ..... 75 ohm Unbalanced

•Tuning Ranges ..... 48.25MHz thru 855.25 MHz
VHF: S1 - S41 CH (Hiperband)
E2 - E12 / F2 - F10
UHF: E21 - E69
VHF: OIRT R1-R12

•White Level
Apply the rated voltage at the rated frequency to the TV set, while it is receiving full white pattern RF signal of 60 dB/μV from its RF input via the pattern generator.
Turn all picture controls to maximum value. Measure the colour temperatures at the center of the screen by using the colour analyzer.

X=0.304 ± 0.015 Y=0.306 ± 0.015

Specifications are subject to change without prior notice.

MODEL DESTINATION (Operation Manual Languages)

14LM-40C: Czech, English, Hungarian, Polish, Romanian, Russian, Slovakian

WARNING

The chassis in this receiver is partially hot. Use an isolation transformer between the line cord plug and power receptacle, when servicing this chassis.
To prevent electric shock, do not remove cover. No user-serviceable parts inside. Refer servicing to qualified service personnel.

IMPORTANT SERVICING NOTES

Only qualified service personnel are allowed to carry out maintenance and repair of this receiver.

Servicing of High Voltage System and CRT

It is important that the static charge is removed from the high voltage system when carrying out work on the receiver. This can be achieved by connecting a 10K resistor (with a suitably insulated lead) from the CRT cavity connector to the CRT ground tag. This must be carried out with the AC supply disconnected from the receiver.

Note the following:

- The CRT in this receiver employs Integral Implosion Protection.
- If the CRT has to be changed it MUST be replaced with the correct type for continued safe working.
- DO NOT lift the CRT by its neck.
- When handing the CRT, ensure that shatterproof goggles are worn.
- Ensure that the CRT is discharge before handling.

X-Ray

This receiver is designed to keep any x-ray emission to an absolute minimum. Some fault conditions and servicing procedures may produce potentially hazardous x-ray radiation levels. This is a problem when in close proximity to the receiver for long periods of time. To reduce any risks associated with this, please observe the following precautions:

1. When undertaking any servicing on this chassis, DO NOT increase the EHT to more than 27.5 KV, (at a instantaneous beam current of 1000 μA).

2. Ensure that during normal operation the EHT does not exceed 25.6 KV (at a beam current of 800 μA). This level has been preset in the factory. Always check that this level has not been exceeded after carrying out any repair on the receiver.

3. DO NOT replace the CRT with any other type than that specified in the parts listing as this may cause excessive x-ray radiation.

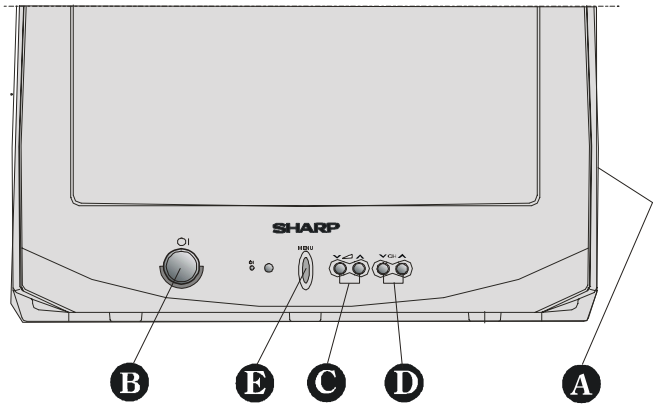
Before returning the receiver to the customer

In addition to the above checks, the following should also be carried out before returning the receiver to the customer.

1. Inspect all the leads to ensure that they are dressed correctly and that they are not obstructed or pinched by any other parts.

2. Ensure that all protective devices are in good condition. These will include nonmetallic control knobs, insulating fish papers, cabinets backs, compartment covers or shields, mechanical insulators, etc.

CONTROLS & TERMINALS

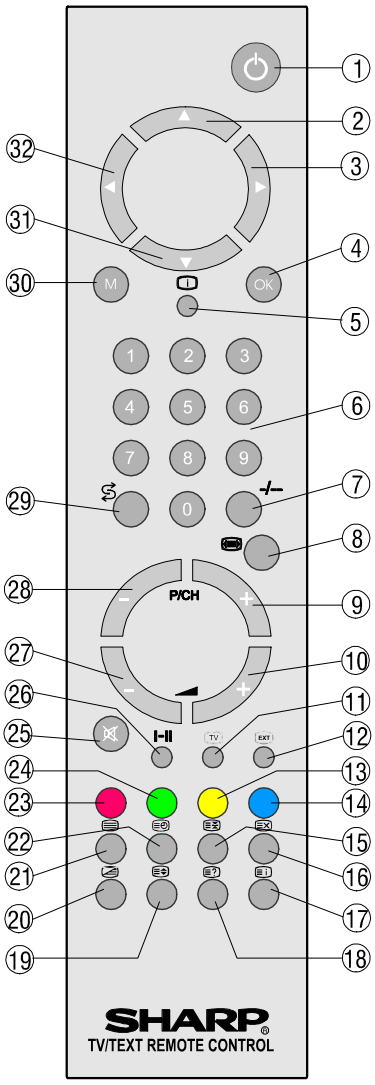


Ⓐ Speaker
Ⓑ ⏻ = Power On / Off
Ⓒ ∨ 🔊 ∧ = Volume -/+
Ⓓ ∨ CH ∧ = Program -/+
Ⓔ **MENU** = Menu

REMOTE CONTROL

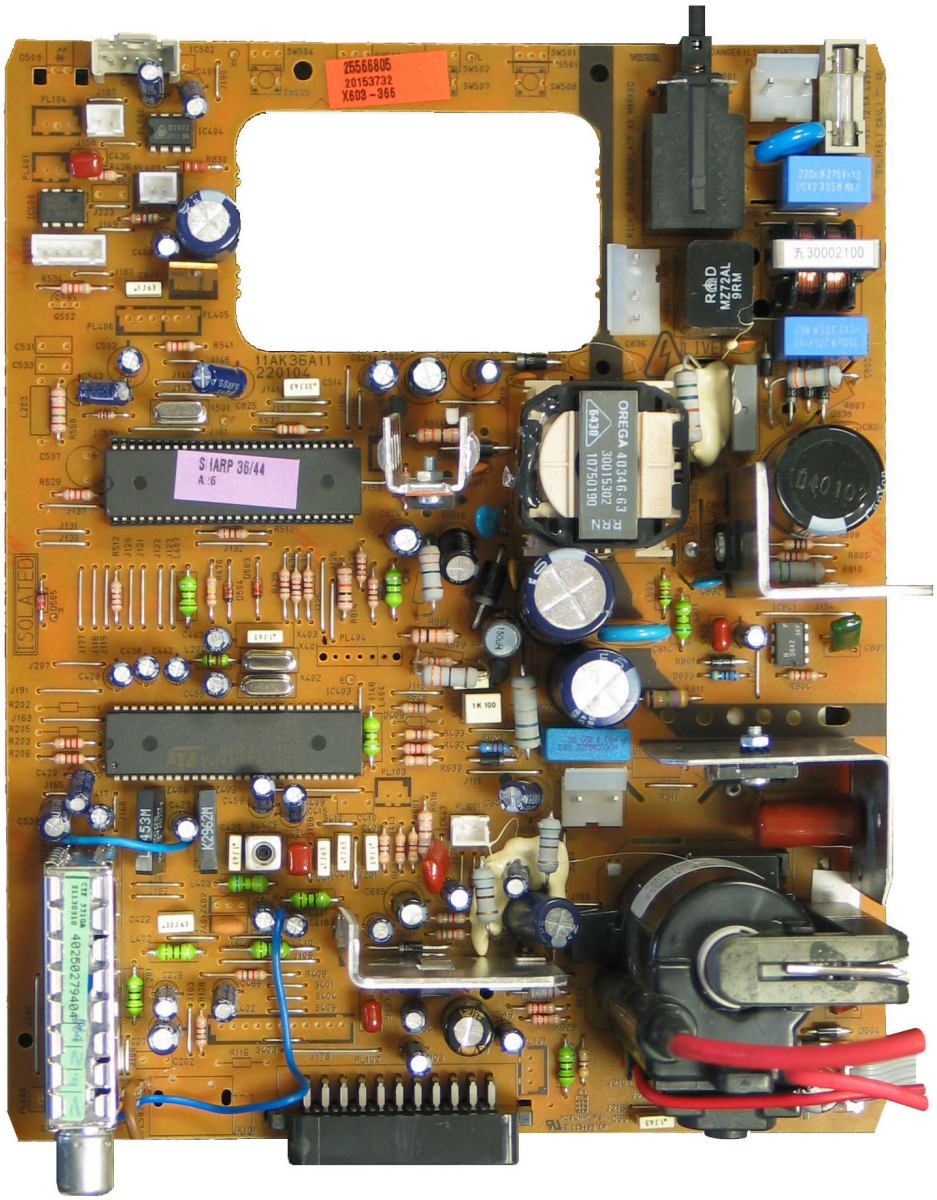
① ⏻ = Stand By
② △ = Cursor Up
③ ▷ = Cursor Right
④ OK = OK
⑤ ⓘ = Info (Program Menu)
⑥ **0 - 9** = Direct Program
⑦ **-/--** = Double Digit
⑧ = Wide mode button
⑨ **P/CH+** = Program +
⑩ **+** = Volume +
⑪ TV = TV / Quit Menu
⑫ EXT = EXT button (**SCART, RGB**)
⑬ **Yellow** = Feature Menu
⑭ **Blue** = Installation Menu
⑮ = Hold
⑯ = Update
⑰ = Index Page
⑱ = Reveal
⑲ = Expand
⑳ = Mix
㉑ = Teletext
㉒ = Time
㉓ **Red** = Sound Menu
㉔ **Green** = Picture Menu
㉕ = Mute
㉖ **I-II** = No function
㉗ **-** = - Volume
㉘ **- P/CH** = -Program
㉙ = Flash back button
㉚ **M** = Menu
㉛ ▽ = Cursor Down
㉜ ◁ = Cursor Left

No Function

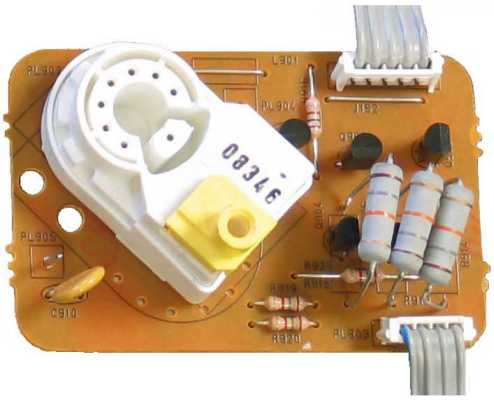


CHASSIS LAYOUT

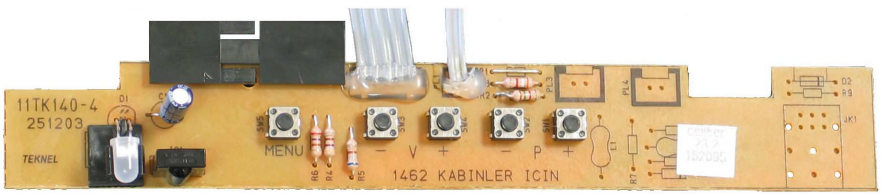
Mother Unit



CRT Unit



Front Unit



PARTS LISTING

REPLACEMENT PARTS

Replacement parts which have special safety characteristics are identified in this manual. Electrical components having such features are identified by in the Replacement Parts Listing.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not permitted.
Replacement parts not shown in this service manual may create shock fire, or other hazards.

HOW TO ORDER REPLACEMENT PARTS

To have your order completed promptly and correctly please supply the following information.

1. MODEL NUMBER 2. REF. NO.
3. PART NO. (*) 4. DESCRIPTION
5. CODE 6. QUANTITY

(*) When ordering any part, a "V" should be added before the Part No.

	REF No.	PARTS (*)	DESCRIPTION	SN CODE	EX CODE
			PICTURE TUBE		
⚠	.	30002747	14" CPT TUBE SAFE	BL	CC
⚠	.	30029252	14"DEG COIL&EARTH CB. SAFE (SHARP)	AE	AP
			TUNER		
	TU201	30009637	TUNER WSP (PLL) CTF5510A	AR	BC
			INTEGRATED CIRCUITS		
	IC1	30001669	PREAMPLIFIER TFMS1380	AD	AM
	IC403	30026922	IC STV2248H (SHRINK56)	AR	BC
	IC404	30001612	IC TDA2822M	AD	AN
	IC500	20145016	IC 24C08 X60217030110122105(SHARP)	AB	AF
	IC501	30015194	IC ST92195 AK30-36 OTP	AT	BE
	IC600	30015306	IC TDA8174AW	AD	AN
	IC810	30001668	IC LM317T	AC	AH
	IC841	30001627	IC KA3842A	AP	BA
	IC842	30001622	IC 7805 (1A)	AB	AF
			TRANSISTORS		
	Q103	30001457	TR BC848B SMD	AA	AC
	Q104	30001457	TR BC848B SMD	AA	AC
	Q455	30001457	TR BC848B SMD	AA	AC
	Q456	30001457	TR BC848B SMD	AA	AC
	Q457	30001457	TR BC848B SMD	AA	AC
	Q458	30001457	TR BC848B SMD	AA	AC
	Q459	30001457	TR BC848B SMD	AA	AC
	Q460	30001457	TR BC848B SMD	AA	AC
	Q501	30001458	TR BC858B SMD	AA	AB
	Q601	30013656	TR POWER STX112-AP	AA	AE
	Q602	30001448	TR BU808DFI	AF	AQ
	Q603	30001457	TR BC848B SMD	AA	AC
	Q801	30001385	TR MTP3N60E (PLASTIC)	AE	AP
	Q803	30001457	TR BC848B SMD	AA	AC
	Q805	30014346	IC 78L05 TO-92 (100mA)	AA	AE
	Q901	30001461	TR 2SC2482	AA	AD
	Q902	30001461	TR 2SC2482	AA	AD
	Q903	30001461	TR 2SC2482	AA	AD
	Q904	30001426	TR BF421	AA	AD
	Q905	30001426	TR BF421	AA	AD
	Q906	30001426	TR BF421	AA	AD
			DIODES		
	D1	30001279	LED RED/GREEN LTL293SJ	AC	AH
	D101	30007763	DIODE ZENER SMD BZT55C5V1	AA	AB
	D102	30007763	DIODE ZENER SMD BZT55C5V1	AA	AB
	D103	30007763	DIODE ZENER SMD BZT55C5V1	AA	AB
	D104	30007763	DIODE ZENER SMD BZT55C5V1	AA	AB
	D105	30007763	DIODE ZENER SMD BZT55C5V1	AA	AB
	D106	30007763	DIODE ZENER SMD BZT55C5V1	AA	AB
	D107	30007763	DIODE ZENER SMD BZT55C5V1	AA	AB
	D108	30009699	DIODE ZENER SMD BZT55C12	AA	AB
	D109	30007763	DIODE ZENER SMD BZT55C5V1	AA	AB
	D110	30007763	DIODE ZENER SMD BZT55C5V1	AA	AB
	D111	30003720	DIODE ZENER BZT55C5V6 5.6V SMD	AA	AB
	D402	30007763	DIODE ZENER SMD BZT55C5V1	AA	AB
	D403	30001285	DIODE 1N4148 SMD	AA	AB
	D404	30012411	DIODE BA782 SMD	AA	AD
	D405	30012411	DIODE BA782 SMD	AA	AD
	D406	30001285	DIODE 1N4148 SMD	AA	AB
	D407	30001285	DIODE 1N4148 SMD	AA	AB
	D410	30018576	DIODE ZENER BZT55C8V2 8.2V SMD	AA	AB
	D411	30018576	DIODE ZENER BZT55C8V2 8.2V SMD	AA	AB
	D412	30018576	DIODE ZENER BZT55C8V2 8.2V SMD	AA	AB
	D413	30009699	DIODE ZENER SMD BZT55C12	AA	AB
	D414	30009699	DIODE ZENER SMD BZT55C12	AA	AB
	D501	30001285	DIODE 1N4148 SMD	AA	AB
	D502	30007761	DIODE ZENER SMD BZT55C3V6	AA	AB
	D503	30001284	DIODE 1N4148 0.15A/100V 0.5A	AA	AB
	D504	30001284	DIODE 1N4148 0.15A/100V 0.5A	AA	AB
	D505	30001377	DIODE ZENER 33V UZT 33B	AB	AF
	D601	30001329	DIODE 1N4007 1A/1000V 30A	AA	AB
	D602	30001285	DIODE 1N4148 SMD	AA	AB
	D604	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D605	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D606	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D609	30001284	DIODE 1N4148 0.15A/100V 0.5A	AA	AB
	D610	30009699	DIODE ZENER SMD BZT55C12	AA	AB
	D801	30001285	DIODE 1N4148 SMD	AA	AB
	D802	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D803	30001331	DIODE 1N4937 1A/600V 30A	AA	AD
	D804	30001288	DIODE BYV27-200 2A/200V 50A	AA	AD
	D805	30001301	DIODE BYM26D 2.3A/800V 45-150A	AB	AF
	D806	30001288	DIODE BYV27-200 2A/200V 50A	AA	AD
	D811	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D813	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D837	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D838	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D839	30007763	DIODE ZENER SMD BZT55C5V1	AA	AB
	D840	30001285	DIODE 1N4148 SMD	AA	AB
	D901	30001285	DIODE 1N4148 SMD	AA	AB
	D902	30001285	DIODE 1N4148 SMD	AA	AB
	D903	30001285	DIODE 1N4148 SMD	AA	AB
			PACKAGED CIRCUITS		
	X401	30001749	XTAL 4.433619 MHZ (AK15)	AC	AK
	X402	30015592	XTAL 3.579545 (WO/LOAD CAP)	AB	AG
	X403	30000074	CAP MKT 100NF 63V J	AA	AC
	X501	30002851	XTAL 4MHZ L.C=30PF	AC	AH
			COILS		
	L101	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L107	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L108	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L109	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD

	REF No.	PARTS	DESCRIPTION	SN CODE	EX CODE
	L110	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L201	30001992	FIXED COIL 10UH Q65 K-A	AA	AB
	L202	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L204	30001984	FIXED COIL 2.2UH Q55 M-AX	AA	AB
	L402	30001992	FIXED COIL 10UH Q65 K-A	AA	AB
	L403	30001990	FIXED COIL 6.8UH Q75 K	AA	AB
	L404	30001987	FIXED COIL 4.7UH Q70 K-A	AA	AB
	L406	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L407	30001992	FIXED COIL 10UH Q65 K-A	AA	AB
	L408	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L409	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L410	30001992	FIXED COIL 10UH Q65 K-A	AA	AB
	L411	30001992	FIXED COIL 10UH Q65 K-A	AA	AB
⚠	L801	30002100	LINE FILTER SAFE 2*27MH	AC	AH
	L802	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L803	30001984	FIXED COIL 2.2UH Q55 M-AX	AA	AB
	L804	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L805	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L811	30001990	FIXED COIL 6.8UH Q75 K	AA	AB
			CERAMIC FILTERS		
	Z401	30001728	TRIPLE TRAP TPT02B	AG	AT
	Z403	30001690	FILTER SAW K2962M	AH	AU
	Z404	30001707	FILTER SAW L9453M	AH	AU
			TRANSFORMERS		
⚠	TR601	30017788	TRF FBT SAFE 90ø (AK30,AK36 LAYER TYPE)	AT	BE
⚠	TR801	30015302	TRF SMPS SAFE AK36 90° (170-270V)	AF	AR
			CAPACITORS		
	C1	30000371	CAP EL 22UF 50V M	AA	AB
	C101	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C103	30000371	CAP EL 22UF 50V M	AA	AB
	C104	30012589	CAP SMD 4.7NF 50V K (0603)	AA	AB
	C108	30012589	CAP SMD 4.7NF 50V K (0603)	AA	AB
	C201	30000400	CAP EL 47UF 50V M	AA	AB
	C206	30000371	CAP EL 22UF 50V M	AA	AB
	C207	30012610	CAP SMD 10NF 50V J (0603)	AA	AB
	C208	30012610	CAP SMD 10NF 50V J (0603)	AA	AB
	C401	30000345	CAP EL 10UF 50V M	AA	AB
	C402	30012610	CAP SMD 10NF 50V J (0603)	AA	AB
	C403	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C404	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C405	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C406	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C408	30000074	CAP MKT 100NF 63V J	AA	AC
	C409	30000384	CAP EL 2.2UF 50V M	AA	AB
	C411	30000074	CAP MKT 100NF 63V J	AA	AC
	C412	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C413	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C415	30000362	CAP EL 1UF 50V M	AA	AB
	C416	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C417	30000362	CAP EL 1UF 50V M	AA	AB
	C418	30000362	CAP EL 1UF 50V M	AA	AB
	C419	30000074	CAP MKT 100NF 63V J	AA	AC
	C420	30000345	CAP EL 10UF 50V M	AA	AB
	C421	30012581	CAP SMD 1NF 50V K R (0603)	AA	AB
	C422	30000100	CAP MKT 330NF 63V J	AA	AD
	C423	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C424	30000109	CAP MKT 470NF 63V J	AA	AD

	REF No.	PARTS	DESCRIPTION	SN CODE	EX CODE
	C425	30000074	CAP MKT 100NF 63V J	AA	AC
	C427	30000362	CAP EL 1UF 50V M	AA	AB
	C428	30000362	CAP EL 1UF 50V M	AA	AB
	C429	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C431	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C432	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C433	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C434	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C435	30012585	CAP SMD 2.2NF 50V K R (0603)	AA	AB
	C436	30000109	CAP MKT 470NF 63V J	AA	AD
	C438	30000384	CAP EL 2.2UF 50V M	AA	AB
	C440	30012589	CAP SMD 4.7NF 50V K (0603)	AA	AB
	C441	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C442	30000362	CAP EL 1UF 50V M	AA	AB
	C443	30000345	CAP EL 10UF 50V M	AA	AB
	C451	30012567	CAP SMD 220PF 50V J (0603)	AA	AB
	C455	30000345	CAP EL 10UF 50V M	AA	AB
	C458	30012567	CAP SMD 220PF 50V J (0603)	AA	AB
	C459	30000345	CAP EL 10UF 50V M	AA	AB
	C460	30000371	CAP EL 22UF 50V M	AA	AB
	C463	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C465	30012575	CAP SMD 4.7PF 50V C CH (0603)	AA	AA
	C466	30000345	CAP EL 10UF 50V M	AA	AB
	C467	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C468	30012574	CAP SMD 470PF 50V J (0603)	AA	AA
	C501	30000074	CAP MKT 100NF 63V J	AA	AC
	C502	30000396	CAP EL 47UF 16V M	AA	AB
	C503	30012603	CAP SMD 100NF 25V K R (0603)	AA	AB
	C504	30012589	CAP SMD 4.7NF 50V K (0603)	AA	AB
	C508	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C511	30000371	CAP EL 22UF 50V M	AA	AB
	C512	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C516	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C518	30012560	CAP SMD 100PF 50V J (0603)	AA	AB
	C519	30012562	CAP SMD 15PF 50V J (0603)	AA	AA
	C520	30012562	CAP SMD 15PF 50V J (0603)	AA	AA
	C523	30012566	CAP SMD 22PF 50V J (0603)	AA	AB
	C526	30012589	CAP SMD 4.7NF 50V K (0603)	AA	AB
	C529	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C532	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C534	30000431	CAP CER 100PF 1KV M	AA	AC
	C535	30006753	CAP CER 220PF 1KV K B	AA	AB
	C538	30012560	CAP SMD 100PF 50V J (0603)	AA	AB
	C539	30000400	CAP EL 47UF 50V M	AA	AB
	C540	30000315	CAP SMD 220NF 25V Z (0805)	AA	AB
	C541	30012590	CAP SMD 47NF 50V K (0603)	AA	AA
	C542	30010571	CAP EL 10UF 16V M	AA	AA
	C602	30000107	CAP MKT 47NF 250V J	AA	AD
	C603	30000100	CAP MKT 330NF 63V J	AA	AD
	C604	30018416	CAP EL 470UF 16V M 105°	AA	AB
	C605	30000354	CAP EL 100UF 35V M	AA	AC
	C606	30000092	CAP MKT 220NF 63V J	AA	AD
	C607	30000078	CAP MKT 1UF 100V M	AB	AF
	C609	30000371	CAP EL 22UF 50V M	AA	AB
	C610	30000360	CAP EL 1000UF 25V M	AA	AE
⚠	C611	30000179	CAP MKP SAFE 9.1NF 1600V %3.5	AB	AG
	C613	30000350	CAP EL 10UF 250V M	AA	AD
⚠	C616	30000156	CAP MKP SAFE 430NF 250V J	AB	AF
	C617	30007750	CAP EL 470UF 35V (H/R 1150MA)	AA	AD

	REF No.	PARTS	DESCRIPTION	SN CODE	EX CODE
	C618	30000092	CAP MKT 220NF 63V J	AA	AD
	C619	30000384	CAP EL 2.2UF 50V M	AA	AB
	C620	30000315	CAP SMD 220NF 25V Z (0805)	AA	AB
	C641	30000345	CAP EL 10UF 50V M	AA	AB
	C643	30000394	CAP EL 3.3UF 160V M	AA	AC
	C644	30000345	CAP EL 10UF 50V M	AA	AB
	C645	30000362	CAP EL 1UF 50V M	AA	AB
	C646	30012581	CAP SMD 1NF 50V K R (0603)	AA	AB
	C647	30000116	CAP MKT 68NF 63V J	AA	AC
	C648	30012609	CAP SMD 68NF 50V K (0603)	AA	AB
	C649	30012573	CAP SMD 47PF 50V J (0603)	AA	AB
	C650	30000294	CAP SMD 100NF 50V K (0805)	AA	AB
	C651	30000074	CAP MKT 100NF 63V J	AA	AC
⚠	C801	30000094	CAP MKT SAFE 220NF 275V M AC	AA	AB
⚠	C802	30000084	CAP MKT SAFE 150NF 275V M AC P=15	AC	AG
	C805	30012585	CAP SMD 2.2NF 50V K R (0603)	AA	AB
	C806	30012574	CAP SMD 470PF 50V J (0603)	AA	AA
	C807	30000090	CAP MKT 22NF 100V J	AA	AB
	C808	30000418	CAP EL 100UF 400V M	AH	AU
	C810	30000315	CAP SMD 220NF 25V Z (0805)	AA	AB
	C811	30000345	CAP EL 10UF 50V M	AA	AB
⚠	C812	30000161	CAP MKP SAFE 47NF 630V J	AB	AE
⚠	C814	30000447	CAP CER SAFE 4.7NF 4KV M E	AB	AG
	C815	30000294	CAP SMD 100NF 50V K (0805)	AA	AB
	C816	30013533	CAP CER 100PF 1KV K (PULSE)	AA	AC
	C817	30000431	CAP CER 100PF 1KV M	AA	AC
	C818	30000433	CAP CER 1NF 1KV M B	AA	AB
	C819	30000382	CAP EL 2200UF 16V M	AB	AF
	C820	30028072	CAP EL 100UF 200V M (HR)	AE	AQ
	C821	30000294	CAP SMD 100NF 50V K (0805)	AA	AB
	C822	30018416	CAP EL 470UF 16V M 105°	AA	AB
	C823	30000352	CAP EL 100UF 16V M	AA	AB
	C824	30000352	CAP EL 100UF 16V M	AA	AB
	C825	30000352	CAP EL 100UF 16V M	AA	AB
	C826	30000092	CAP MKT 220NF 63V J	AA	AD
	C827	30006909	CAP EL 100UF M 250V	AC	AG
	C828	30013533	CAP CER 100PF 1KV K (PULSE)	AA	AC
	C829	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C832	30009208	CAP CER 470PF 1KV K (PULSE)	AA	AC
	C834	30007308	CAP CER 220PF 1KV K (PULSE)	AA	AD
	C837	30009208	CAP CER 470PF 1KV K (PULSE)	AA	AC
	C839	30000294	CAP SMD 100NF 50V K (0805)	AA	AB
	C840	30000294	CAP SMD 100NF 50V K (0805)	AA	AB
	C841	30000345	CAP EL 10UF 50V M	AA	AB
	C842	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C905	30012568	CAP SMD 270PF 50V J (0603)	AA	AA
	C907	30012568	CAP SMD 270PF 50V J (0603)	AA	AA
	C909	30012568	CAP SMD 270PF 50V J (0603)	AA	AA
	C910	30000434	CAP CER 1NF 2KV K B	AA	AB
	C911	30012579	CAP SMD 82PF 50V J (0603)	AA	AB
	C912	30012579	CAP SMD 82PF 50V J (0603)	AA	AB
	C913	30012579	CAP SMD 82PF 50V J (0603)	AA	AB
	C915	30012567	CAP SMD 220PF 50V J (0603)	AA	AB
	C916	30012567	CAP SMD 220PF 50V J (0603)	AA	AB
	C917	30012567	CAP SMD 220PF 50V J (0603)	AA	AB
			RESISTORS		
	R101	30012509	RES SMD 1/16W 100K J (0603)	AA	AB
	R110	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R111	30012713	RES SMD 1/16W 75R J (0603)	AA	AB

	REF No.	PARTS	DESCRIPTION	SN CODE	EX CODE
	R113	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R115	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R117	30012986	RES SMD 1/16W 68R J (0603)	AA	AA
	R118	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R119	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R122	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R123	30014128	RES SMD 1/16W 33R J (0603)	AA	AB
	R125	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R126	30012695	RES SMD 1/16W 470R J (0603)	AA	AB
	R127	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R128	30000459	RES CF 1/4W 100R J	AA	AB
	R129	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R130	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R131	30012649	RES SMD 1/16W 150R J (0603)	AA	AB
	R132	30012649	RES SMD 1/16W 150R J (0603)	AA	AB
	R2	30000526	RES CF 1/4W 1.5K J	AA	AB
	R201	30012674	RES SMD 1/16W 27K J (0603)	AA	AB
	R203	30000583	RES CF 1/4W 220R J	AA	AB
	R204	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R206	30000583	RES CF 1/4W 220R J	AA	AB
	R3	30000689	RES CF 1/4W 3.9K J	AA	AB
	R4	30000712	RES CF 1/4W 470R J	AA	AB
	R401	30014076	RES SMD 1/16W 4.7R J (0603)	AA	AA
	R402	30014076	RES SMD 1/16W 4.7R J (0603)	AA	AA
	R408	30000466	RES CF 1/4W 1K J	AA	AB
	R409	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R410	30012707	RES SMD 1/16W 680R J (0603)	AA	AB
	R411	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R412	30012667	RES SMD 1/16W 220K J (0603)	AA	AB
	R413	30000712	RES CF 1/4W 470R J	AA	AB
	R414	30012649	RES SMD 1/16W 150R J (0603)	AA	AB
	R415	30012683	RES SMD 1/16W 330K J (0603)	AA	AB
	R416	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R417	30012650	RES SMD 1/16W 15K J (0603)	AA	AB
	R418	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R419	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R420	30000466	RES CF 1/4W 1K J	AA	AB
	R421	30012674	RES SMD 1/16W 27K J (0603)	AA	AB
	R422	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R423	30012714	RES SMD 1/16W 820R J (0603)	AA	AA
	R424	30012714	RES SMD 1/16W 820R J (0603)	AA	AA
	R425	30012714	RES SMD 1/16W 820R J (0603)	AA	AA
	R426	30000718	RES CF 1/4W 4.7K J	AA	AB
	R427	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R428	30012696	RES SMD 1/16W 47K J (0603)	AA	AB
	R429	30000466	RES CF 1/4W 1K J	AA	AB
	R430	30000466	RES CF 1/4W 1K J	AA	AB
	R431	30000466	RES CF 1/4W 1K J	AA	AB
	R432	30000590	RES CF 1/4W 2.2K J	AA	AB
	R433	30000594	RES CF 1/4W 22K J	AA	AB
	R433	30000712	RES CF 1/4W 470R J	AA	AB
	R434	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R435	30012659	RES SMD 1/16W 2.2K J (0603)	AA	AB
	R436	30012674	RES SMD 1/16W 27K J (0603)	AA	AB
	R437	30012642	RES SMD 1/16W 120K J (0603)	AA	AA
	R460	30012698	RES SMD 1/16W 5.6K J (0603)	AA	AB
	R461	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R462	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R463	30012696	RES SMD 1/16W 47K J (0603)	AA	AB

	REF No.	PARTS	DESCRIPTION	SN CODE	EX CODE
	R464	30012696	RES SMD 1/16W 47K J (0603)	AA	AB
	R465	30012508	RES SMD 1/16W 1.8K J (0603)	AA	AB
	R467	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R468	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R469	30012683	RES SMD 1/16W 330K J (0603)	AA	AB
	R470	30000670	RES CF 1/4W 330K J	AA	AB
	R474	30000748	RES CF 1/4W 5.6K J	AA	AB
	R477	30012662	RES SMD 1/16W 2.7K J (0603)	AA	AB
	R478	30014022	RES SMD 1/16W 47R J (0603)	AA	AA
	R479	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R480	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R481	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R5	30000770	RES CF 1/4W 680R J	AA	AB
	R502	30012695	RES SMD 1/16W 470R J (0603)	AA	AB
	R503	30012707	RES SMD 1/16W 680R J (0603)	AA	AB
	R504	30012679	RES SMD 1/16W 3.9K J (0603)	AA	AB
	R507	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R508	30014022	RES SMD 1/16W 47R J (0603)	AA	AA
	R509	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R510	30012673	RES SMD 1/16W 270R J (0603)	AA	AB
	R511	30012508	RES SMD 1/16W 1.8K J (0603)	AA	AB
	R512	30000459	RES CF 1/4W 100R J	AA	AB
	R513	30000459	RES CF 1/4W 100R J	AA	AB
	R514	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R515	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R516	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R517	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R520	30012698	RES SMD 1/16W 5.6K J (0603)	AA	AB
	R528	30012668	RES SMD 1/16W 220R J (0603)	AA	AA
	R529	30000590	RES CF 1/4W 2.2K J	AA	AB
	R531	30012698	RES SMD 1/16W 5.6K J (0603)	AA	AB
	R533	30012698	RES SMD 1/16W 5.6K J (0603)	AA	AB
	R534	30000500	RES CF 1/4W 12K J	AA	AB
	R535	30012506	RES SMD 1/16W 1.5K J (0603)	AA	AB
	R537	30000471	RES CF 1/4W 10K J	AA	AB
	R541	30000500	RES CF 1/4W 12K J	AA	AB
	R542	30012508	RES SMD 1/16W 1.8K J (0603)	AA	AB
	R546	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R547	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R549	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R560	30000525	RES CF 1/2W 1.5K J	AA	AB
	R563	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R564	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R565	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R568	30000459	RES CF 1/4W 100R J	AA	AB
	R6	30000622	RES CF 1/4W 270R J	AA	AB
	R601	30000723	RES CF 1/4W 47K J	AA	AB
	R602	30012642	RES SMD 1/16W 120K J (0603)	AA	AA
	R603	30012711	RES SMD 1/16W 75K J (0603)	AA	AA
	R604	30000718	RES CF 1/4W 4.7K J	AA	AB
	R605	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R607	30015578	RES SMD 1/16W 2.2R J (0603)	AA	AA
	R609	30001145	RES MO 1W 33R J	AA	AB
	R610	30000519	RES CF 1/4W 150R J	AA	AB
	R612	30012508	RES SMD 1/16W 1.8K J (0603)	AA	AB
	R613	30000828	RES CF 1/4W 8.2M J	AA	AB
	R614	30000471	RES CF 1/4W 10K J	AA	AB
	R615	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R616	30001145	RES MO 1W 33R J	AA	AB

	REF No.	PARTS	DESCRIPTION	SN CODE	EX CODE
	R617	30012677	RES SMD 1/16W 3.3K J (0603)	AA	AA
	R618	30000769	RES CF 1/2W 680R J	AA	AB
	R619	30000910	RES MF 1/2W 1.8R G	AA	AB
	R620	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R623	30000869	RES MF 1/4W 12K J	AA	AB
	R624	30000594	RES CF 1/4W 22K J	AA	AB
	R625	30000469	RES SMD 1/10W 1K J 0805	AA	AB
	R626	30001215	RES FUSE SAFE 1W 1R J	AA	AC
	R627	30000718	RES CF 1/4W 4.7K J	AA	AB
	R628	30014941	RES CF 1/4W 16K J	AA	AA
	R631	30012508	RES SMD 1/16W 1.8K J (0603)	AA	AB
	R632	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R633	30000564	RES CF 1/4W 18K J	AA	AB
	R634	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R635	30012659	RES SMD 1/16W 2.2K J (0603)	AA	AB
	R636	30006757	RES MO 1W 560R J	AA	AB
⚠	R637	30001225	RES FUSE SAFE 1/4W 0.22R J	AA	AC
	R638	30006757	RES MO 1W 560R J	AA	AB
	R640	30002731	RES SMD 1/10W 68R J	AA	AB
	R641	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R801	30000983	RES MF 1/4W 4.7K F	AA	AB
	R802	30012642	RES SMD 1/16W 120K J (0603)	AA	AA
	R803	30007207	RES SMD 1/10W 22K F	AA	AA
	R804	30000466	RES CF 1/4W 1K J	AA	AB
	R805	30000466	RES CF 1/4W 1K J	AA	AB
	R807	30001157	RES MO 1W 330K J	AA	AA
	R808	30000452	RES CF 1/4W 10R J	AA	AB
	R809	30001183	RES MO 2W 56K J	AA	AA
	R810	30017136	RES MO 1W 0.56R J	AA	AA
⚠	R811	30001257	RES MG SAFE 1/2W 4.7M J	AA	AD
	R813	30000470	RES CF 1/2W 10K J	AA	AA
	R814	30000649	RES CF 1/2W 33R J	AA	AB
	R815	30000524	RES SMD 1/10W 150R J (0805)	AA	AB
	R816	30000470	RES CF 1/2W 10K J	AA	AA
	R817	30000594	RES CF 1/4W 22K J	AA	AB
	R820	30000469	RES SMD 1/10W 1K J 0805	AA	AB
⚠	R821	30001229	RES FUSE SAFE 1W 2.2R J	AA	AC
	R821	30001235	RES FUSE SAFE 1/2W 0.33R J	AA	AB
	R828	30001185	RES MO 2W 5.6R J	AA	AB
	R829	30012714	RES SMD 1/16W 820R J (0603)	AA	AA
⚠	R830	30001245	RES FUSE SAFE 1/4W 0.47R J	AA	AC
	R831	30012677	RES SMD 1/16W 3.3K J (0603)	AA	AA
⚠	R832	30018085	CAP VAR SAFE 510V K MFCN14D511	AA	AD
	R901	30012688	RES SMD 1/16W 390R J (0603)	AA	AA
	R902	30012688	RES SMD 1/16W 390R J (0603)	AA	AA
	R903	30012688	RES SMD 1/16W 390R J (0603)	AA	AA
	R904	30012508	RES SMD 1/16W 1.8K J (0603)	AA	AB
	R905	30012508	RES SMD 1/16W 1.8K J (0603)	AA	AB
	R906	30012508	RES SMD 1/16W 1.8K J (0603)	AA	AB
	R907	30014022	RES SMD 1/16W 47R J (0603)	AA	AA
	R908	30014022	RES SMD 1/16W 47R J (0603)	AA	AA
	R909	30014022	RES SMD 1/16W 47R J (0603)	AA	AA
	R910	30012695	RES SMD 1/16W 470R J (0603)	AA	AB
	R911	30012695	RES SMD 1/16W 470R J (0603)	AA	AB
	R912	30012695	RES SMD 1/16W 470R J (0603)	AA	AB
	R913	30001116	RES MO 2W 18K J	AA	AB
	R914	30001116	RES MO 2W 18K J	AA	AB
	R915	30001116	RES MO 2W 18K J	AA	AB
	R916	30000459	RES CF 1/4W 100R J	AA	AB

	REF No.	PARTS	DESCRIPTION	SN CODE	EX CODE
	R917	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R918	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R919	30000526	RES CF 1/4W 1.5K J	AA	AB
	R920	30000526	RES CF 1/4W 1.5K J	AA	AB
	R921	30000526	RES CF 1/4W 1.5K J	AA	AB
			MISCELLANEOUS PARTS		
	J128	30002002	FIXED COIL 47UH Q60 K	AA	AB
	J142	30000461	RES CF 1/6W 100R J	AA	AB
	J168	30001992	FIXED COIL 10UH Q65 K-A	AA	AB
	LX810	30010964	FERRITE BEAT(805) BLM21A601RPT	AA	AB
	PL1	30016521	CNAS 2P/150 TB FLT W/C W/UL2468AWG24	AA	AE
	PL102	30015053	SOCKET SCART NEW TYPE	AB	AF
	PL2	30002243	CNASY 5P/220 W/UL	AA	AE
	PL403	30001829	CONN HEADER 2P 2.5MM TOP WHT SD	AA	AB
	PL404	30017088	CNAS 5P/300 AK36 FLT W/CABLH UL2468AWG24	AA	AD
	PL504	30001783	CONN HEADER 5P 2.5MM TOP BD	AA	AC
	PL506	30001829	CONN HEADER 2P 2.5MM TOP WHT SD	AA	AB
	PL507	30007732	CNAS 1P/300 AQUA DIS W/CLIPS	AA	AB
	PL509	30006709	CONN HEADER 5P 2.5MM TOP WHT SD	AA	AB
	PL601	30001829	CONN HEADER 2P 2.5MM TOP WHT SD	AA	AB
	PL602	30017089	CNAS 3P-4/300 FLT W/CABLH UL2468AWG24	AA	AC
	PL603	30001792	CONN HEADER 2P 7.5MM TOP WHT	AA	AC
	PL802	30001792	CONN HEADER 2P 7.5MM TOP WHT	AA	AC
	PL803	30001795	CONN HEADER 3P 5/7.5MM TOP WHT	AA	AC
⚠	PL902	30001860	SOCKET CRT SAFE MININECK METALLO	AD	AM
	PL905	35000135	TEST PIN 1.1MM	AA	AB
	SW1	30002181	SWITCH TACT(4)	AA	AC
	SW2	30002181	SWITCH TACT(4)	AA	AC
	SW3	30002181	SWITCH TACT(4)	AA	AC
	SW4	30002181	SWITCH TACT(4)	AA	AC
	SW5	30002181	SWITCH TACT(4)	AA	AC
⚠	SW801	30017848	SWITCH SAFE ON/OFF 4A/128A JVC(PANASONI)	AC	AH
⚠	TH800	30001270	PTC SAFE 9 OHM	AC	AK
	VL405	30026042	ADJ.COIL VIF 44MHZ Q=64 C=39pF (AK36)	AA	AD
	A-H ARASINA	30009833	CABL 1P/100 SIS	AA	AB
	.	20000848	FUSE ASSY.TK79-A (2.5A)	AA	AD
	I-B ARASINA	30009846	CABL 1P/40 SIS	AA	AB
	.	30001954	SPEAKER 16R 3W 3"	AE	AP
	.	30017090	CNAS 2P/350 SPK SIS W/C W/UL1007AWG24	AA	AD
⚠	.	20140518	BACK CVR.1462 EKO2GRAY (I)	AH	AT
	.	20140991	BUTTON ASSY 1462(FUNC.SILV-ON/OF O.BLUE)	AB	AF
	.	35008861	SPRING ON/OFF SWITCH 1462 SHARP(SHARP)	AA	AA
	.	20141192	SNOW BOX ASSY 1462 (SHARP)	AC	AH
	.	20140521	SNOW BOX TOP 1462	AB	AE
	.	20140522	SNOW BOX BOTTOM 1462	AB	AE
	.	20141193	SCR.ASSY.1462	AB	AF
	.	35000212	SCREW S C ZNSY YSMB 2.9*13	AA	AB
	.	35001777	SCREWSCZNORYAKB 5x30 WITH	AA	AB
	.	35004572	SCREW P C AgSYF YSB 4x20	AA	AB
	.	35005051	SCREW P C ZN RYSM 4x16 (HITACHI) (R:16)	AA	AB
	.	20151304	POWER CORD ASSY.(2.4MT W/FTZ)(LONGWELL)	AD	AM
	.	30001793	CONN HOUSING 2P 7.5MM TOP	AA	AD
⚠	.	30028208	POWER CORD SAFE EURO 2.2M SHARP W/FILTER	AG	AT
⚠	.	20152039	FRONT 1462 W/H WO/J SLV285S(P)	AP	AZ
	.	20090589	PW&AK36 BRAKETI (I)	AA	AA
	.	20116237	BRACKET POWER SWITCH (I)	AA	AA
	.	40017363	CABLE HOLDER 2162_SF SHARP	AA	AC
	.	20152095	MD.ASY.TK140-WO/HP 5SW 1462 AK36	AF	AR

	REF No.	PARTS	DESCRIPTION	SN CODE	EX CODE
	.	40017873	LED HOLDER (SHARP)	AA	AC
	.	30017781	CNAS 2P/350 VRT SIS W/C UL1007AWG24	AA	AD
	.	30017782	CNAS 2P/350 HRT DIS W/C UL1007AWG24	AA	AD
	.	35000014	EARTH SPRING (2CM)	AA	AB
	.	20160416	CHS.ASSY.36-141R11142118F	BG	BX
	.	20145016	IC 24C08 X60217030110122105(SHARP)	AB	AF
	.	30006987	IC 24C08 (WP)	AC	AH
	.	20061814	HE.ASY.36-VERTICAL (AK34/36/46)	AE	AP
⚠	F801	30001731	FUSE SAFE 2.5A 250V 5*20MM	AA	AC
	.	35000136	FUSE HOLDER TK79-A (GRAY)	AA	AD
	.	30025287	AK36 SMT SHIELD	AA	AD
⚠	.	20069674	FIRE BARRIER (I)(NATURAL-V.0) (AK36)	AA	AC
	.	20164255	PR.IC.AK36/44- WO/TXT SHARP-Y28	AS	BD
	.	50043776	LABEL LOT W/BARCODE (100X280) SHARP	AA	AC
	.	20147245	LBL.BCK.CVR.ASSY (TV) (WO/UL)SHARP	AA	AC
	.	50043775	LABEL LOT W/BARCODE (39X89)	AA	AB
	.	20143026	R/C 1548 SHARP (EKO2GRAY/I) (GRAY/S)	AM	AY
	.	50052881	I/B SHARP 14LM40C P/92195/1548/EPMÇSRR	AF	AR
	.	40016816	LOGO SHARP (W/P-SÝLVER BRUSH-HST)	AB	AF

How to update the Technical Information appeared on this Service Manual

1. Web site: https://www.vestelservice.com
2. Select: Technical Support
3. Login: 101278
4. Password: SHPII278

By this access you can consult the latest schematic diagram or request the Parts Listing of a concrete Production Date / Serial Number.

By this way it can be also consulted the issued Technical Reports (Service Bulletins).

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